What is claimed is:

1. An apparatus comprising:

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an amplitude mapping circuit for converting at least a portion of an amplitude signal to a binary value; and,

a plurality of amplifiers coupled to the amplitude mapping circuit,

wherein the binary value is transmitted to at least one of the plurality of amplifiers to specify a gain level of the amplifier.

10 2. The apparatus of claim 1, further comprising:

a rectangular to polar converter for converting a signal into amplitude and phase portions, and for transmitting said amplitude portion to the amplitude mapping circuit.

- 3. The apparatus of claim 2, further comprising:
- a phase modulator for modulating the phase portion with a carrier signal.
 - 4. The apparatus of claim 2, further comprising:

a mixer for modulating the phase portion with a carrier signal.

5. The apparatus of claim 1, further comprising:

at least one gain control source for applying the binary value to at least one of the plurality of amplifiers.

- 6. The apparatus of claim 1, further comprising:
- an input matching circuit coupled to the respective inputs of the plurality of amplifiers; and

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an output matching circuit coupled to the respective outputs of the plurality of amplifiers.

- 7. The apparatus of claim 6, further comprising:
- at least one gain control source coupled to a control terminal of at least one of the plurality of amplifiers.
 - 8. A method for processing a signal, comprising the steps of:

separating the signal into amplitude and phase components;

generating a binary representation of at least a portion of the amplitude component; and,

specifying a gain level of one of a plurality of amplifiers in response to the generated binary representation.